



FIG. 1

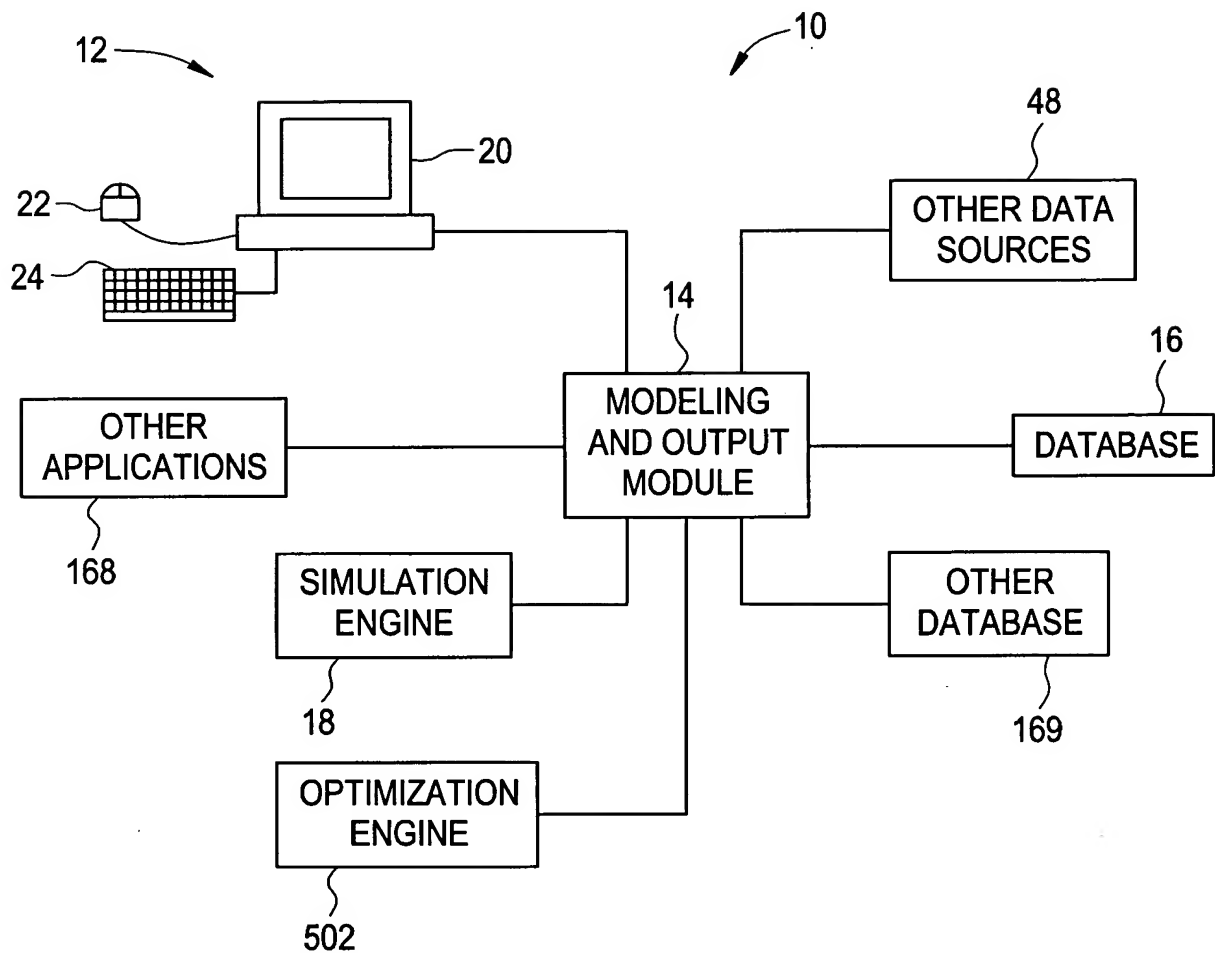


FIG. 2

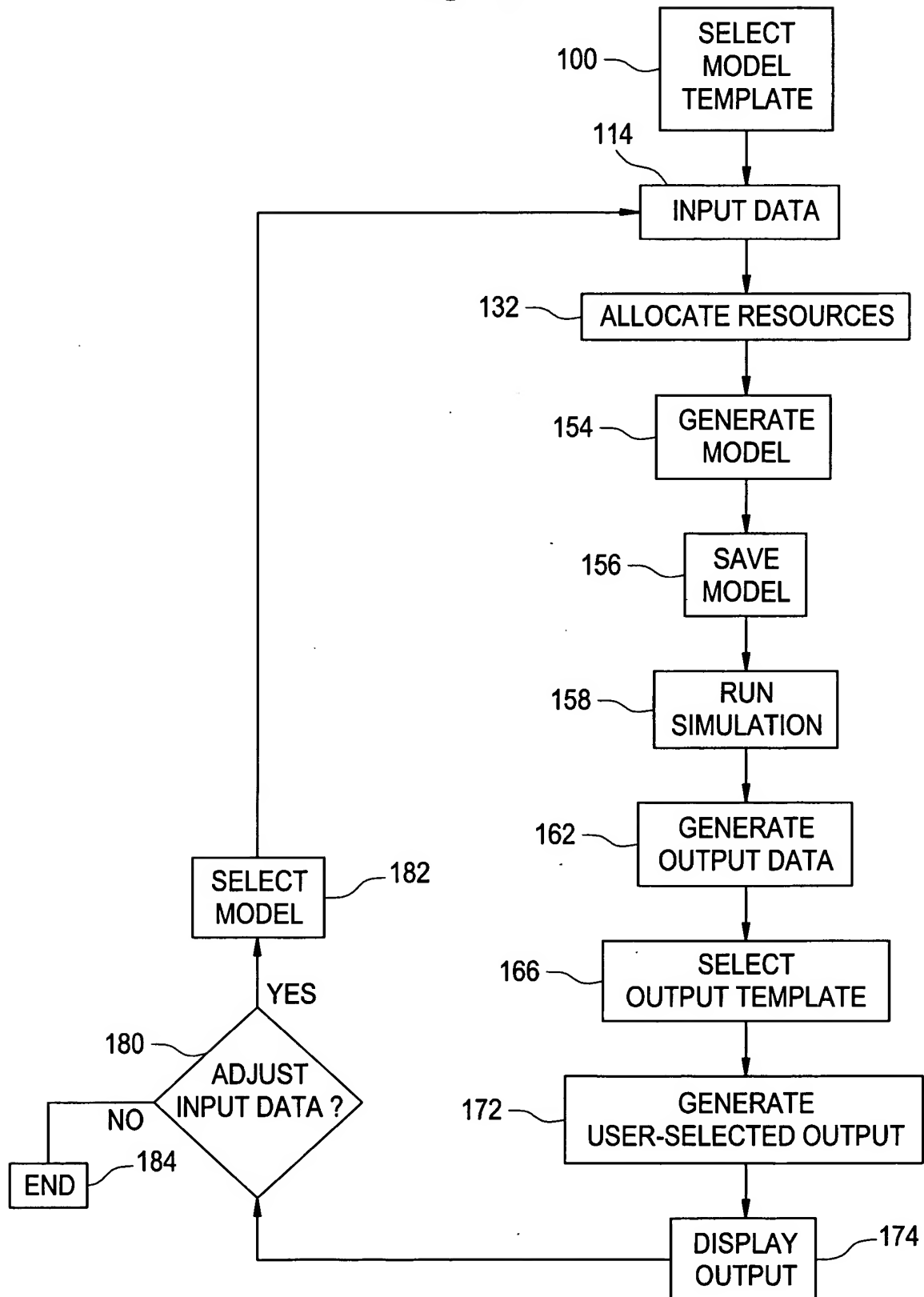


FIG. 3

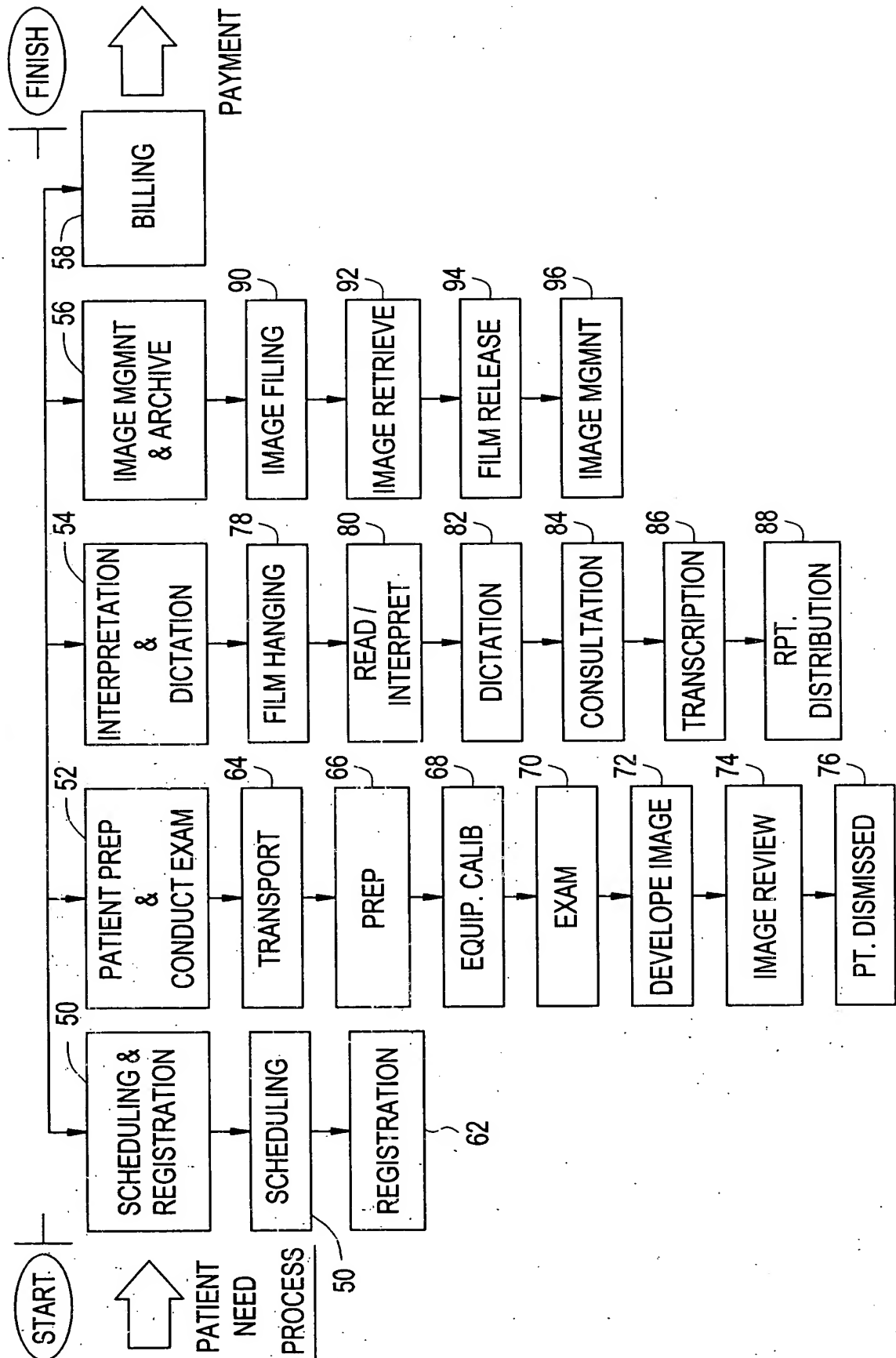


FIG. 4

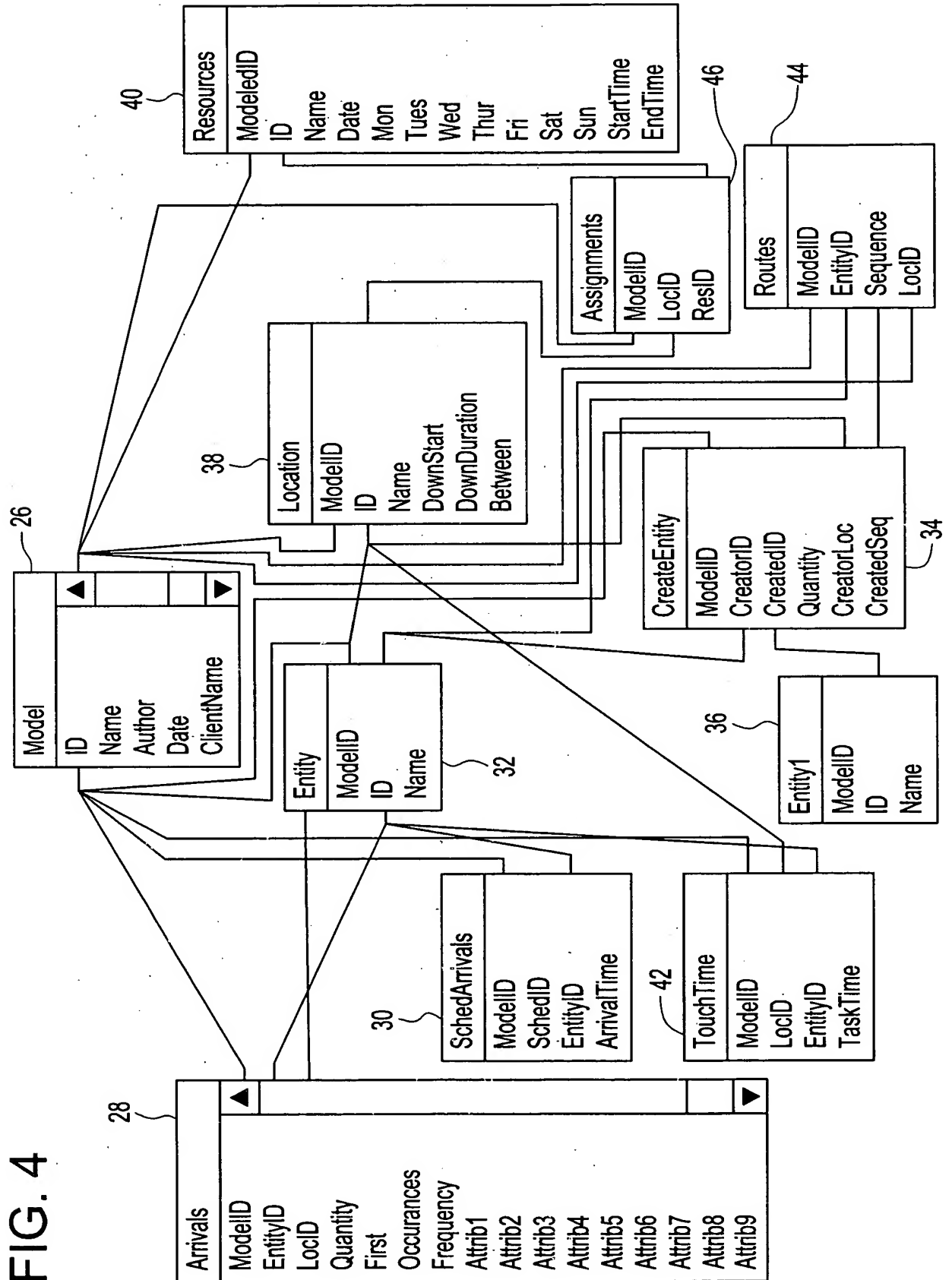


FIG. 5

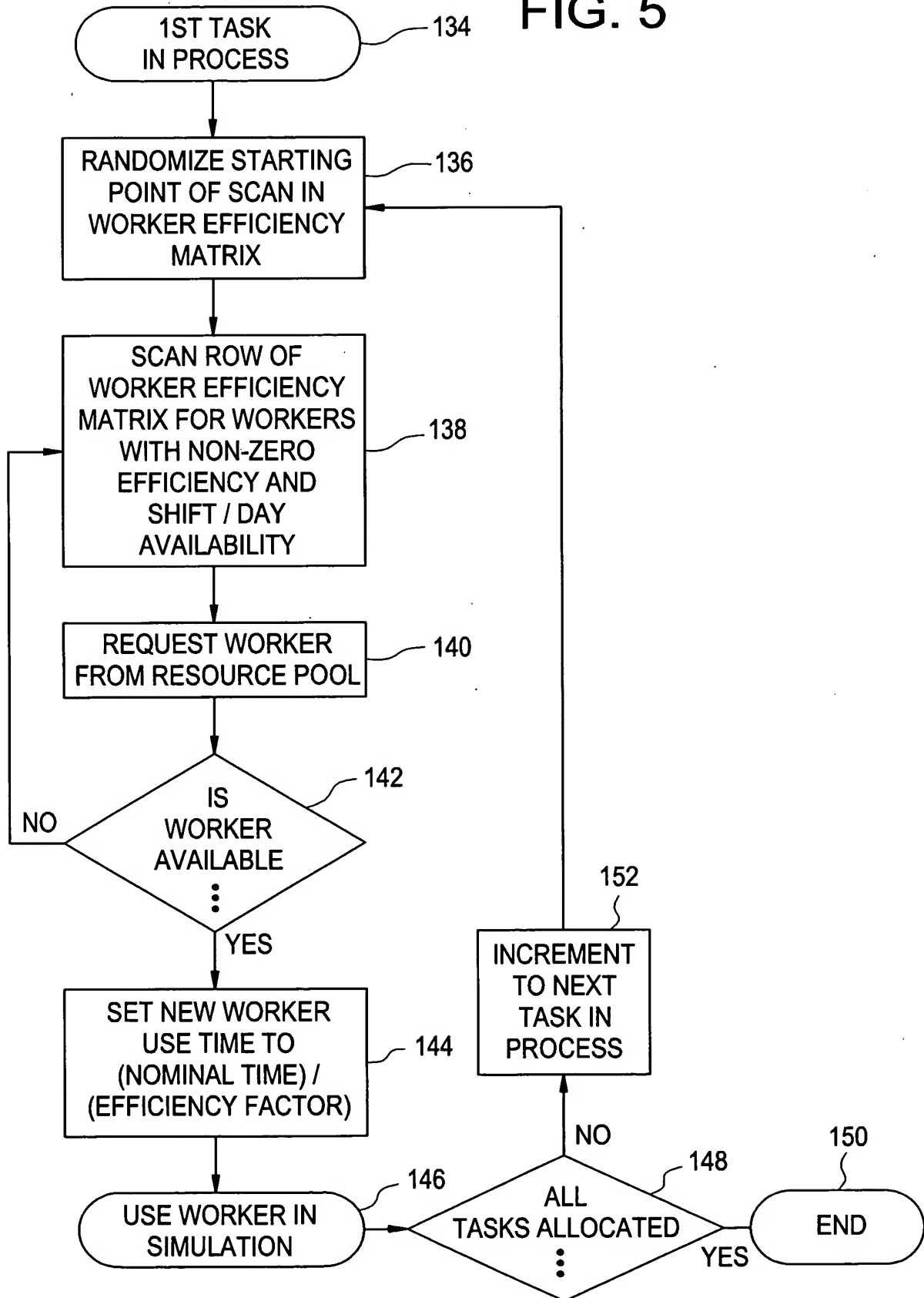


FIG. 6

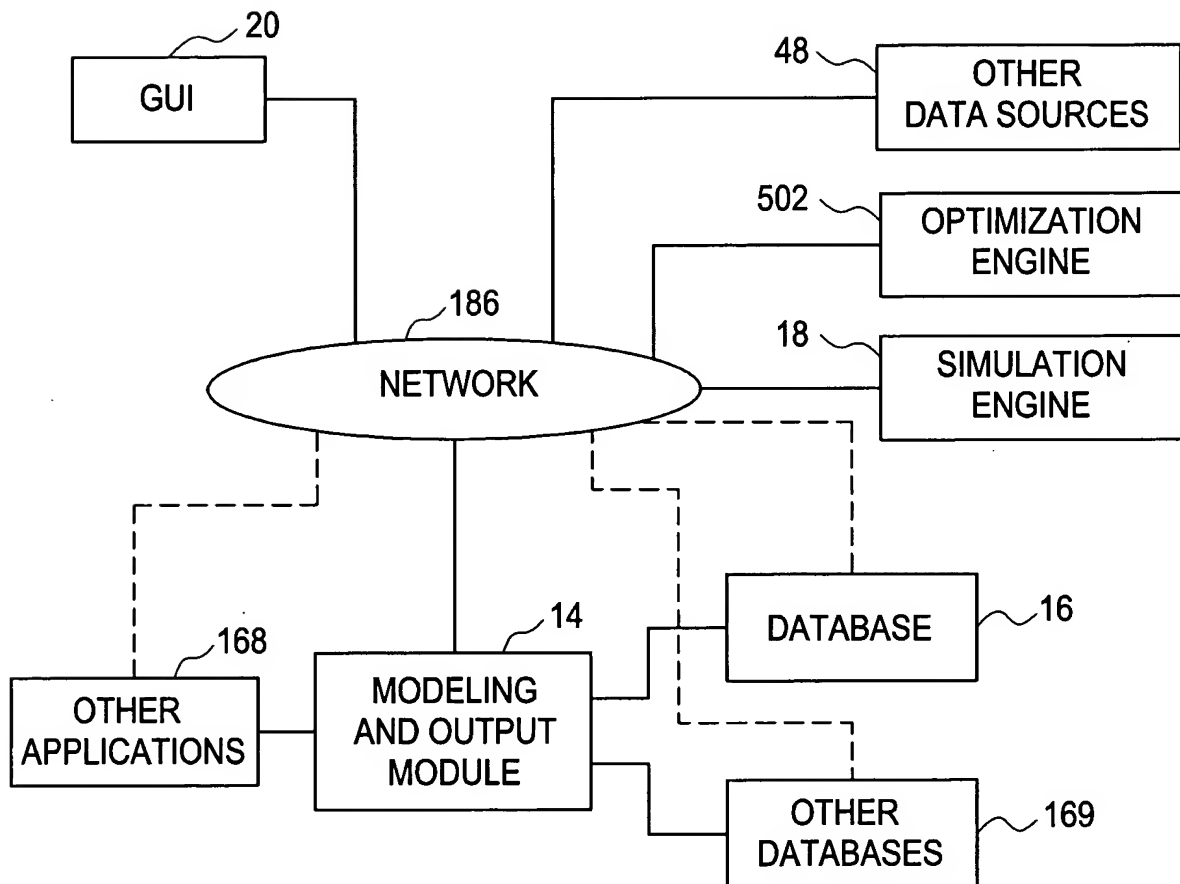
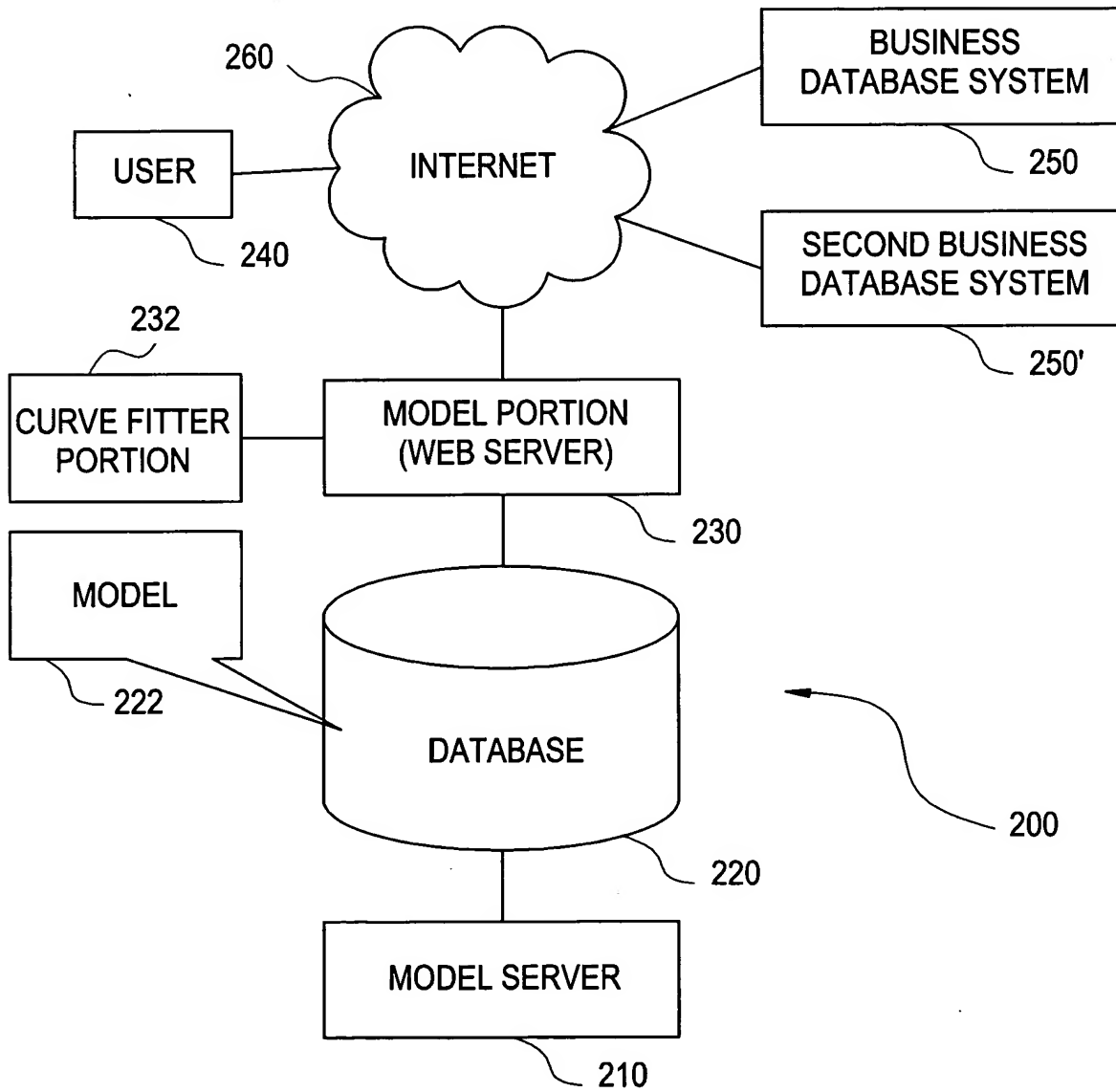
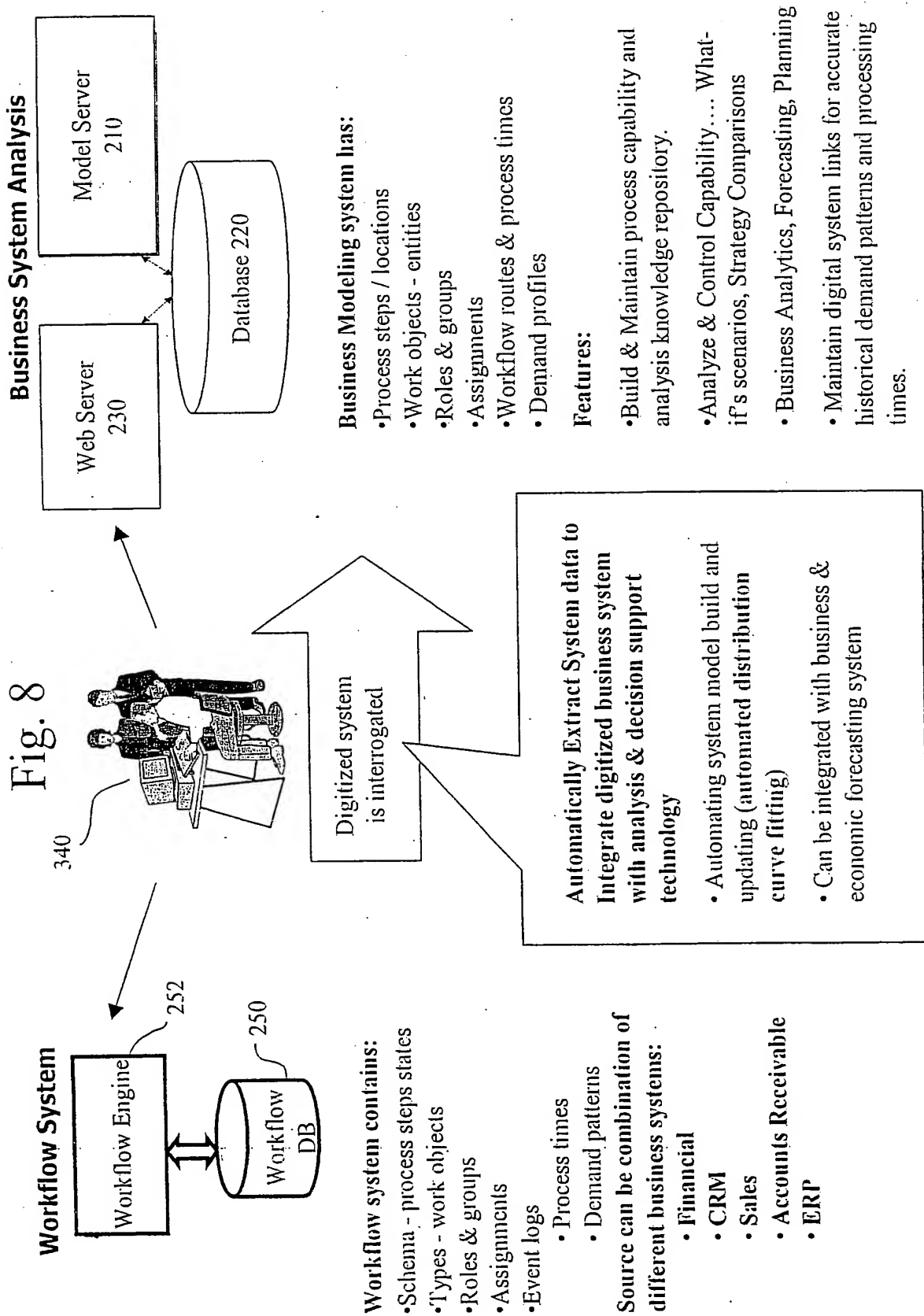


FIG. 7





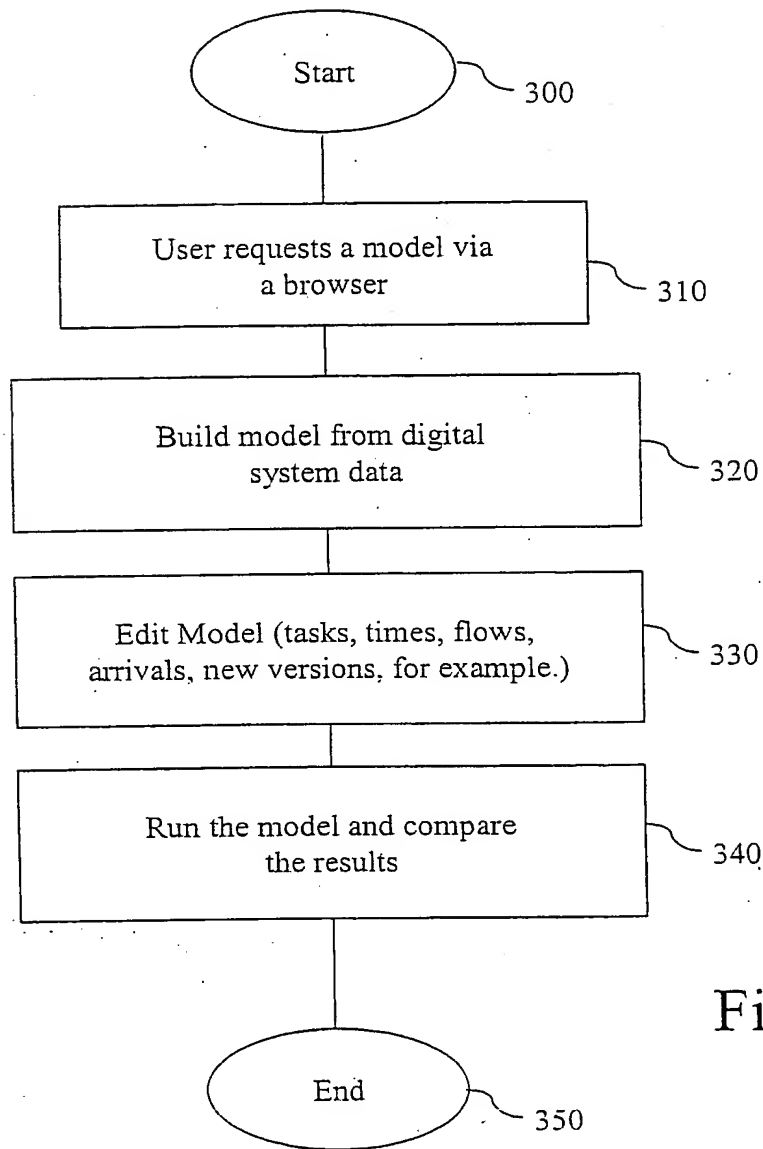


Fig. 9

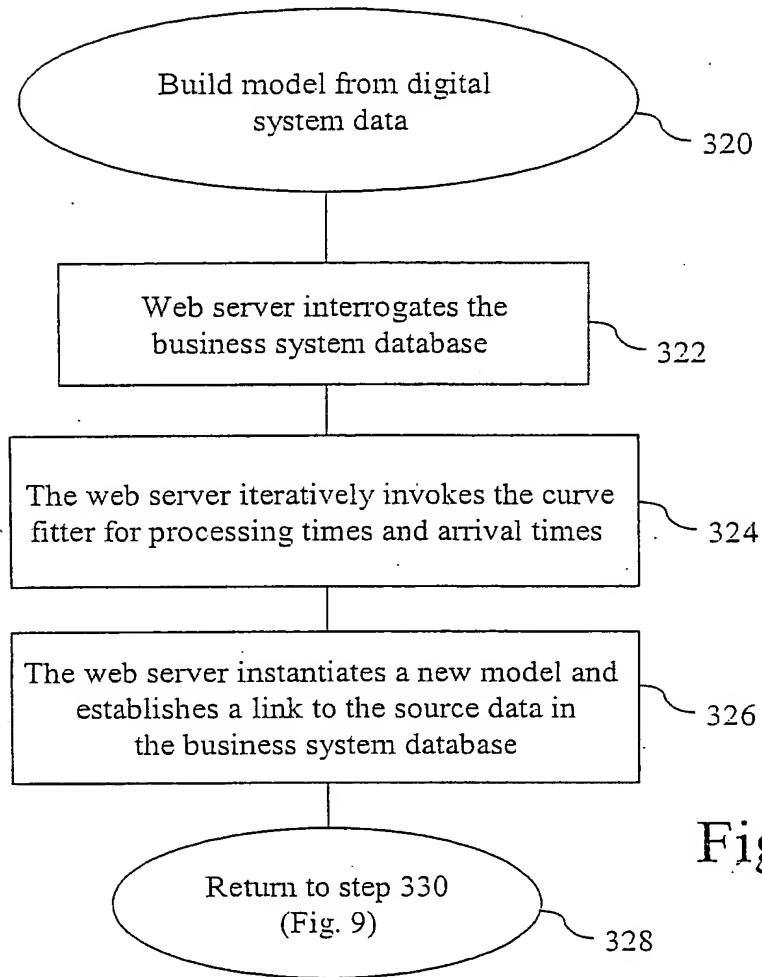


Fig. 10

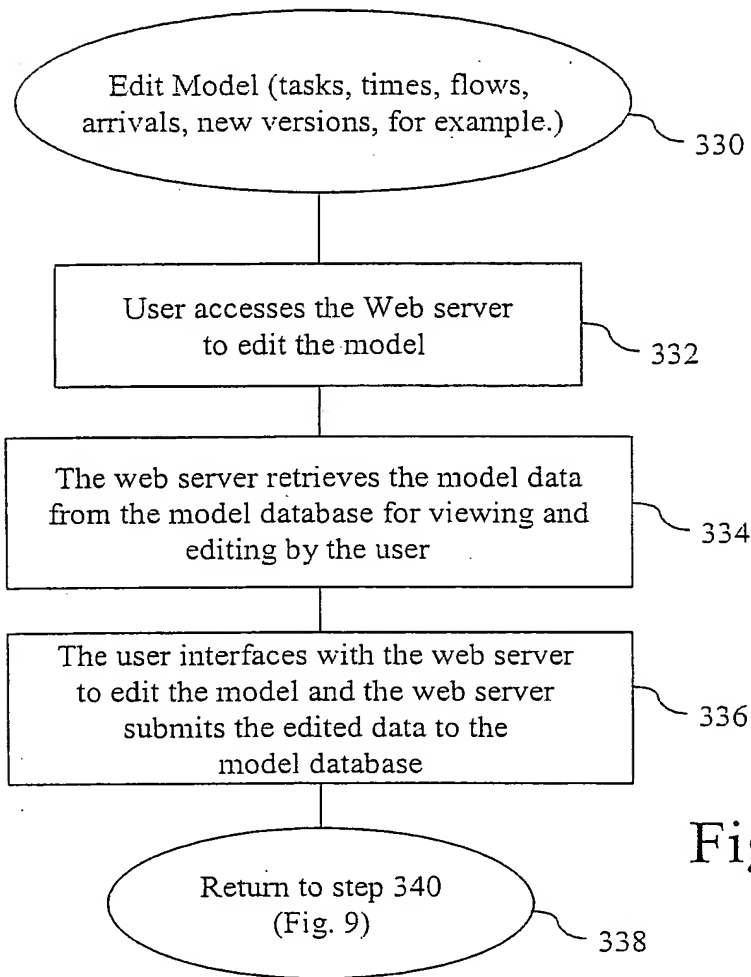


Fig. 11

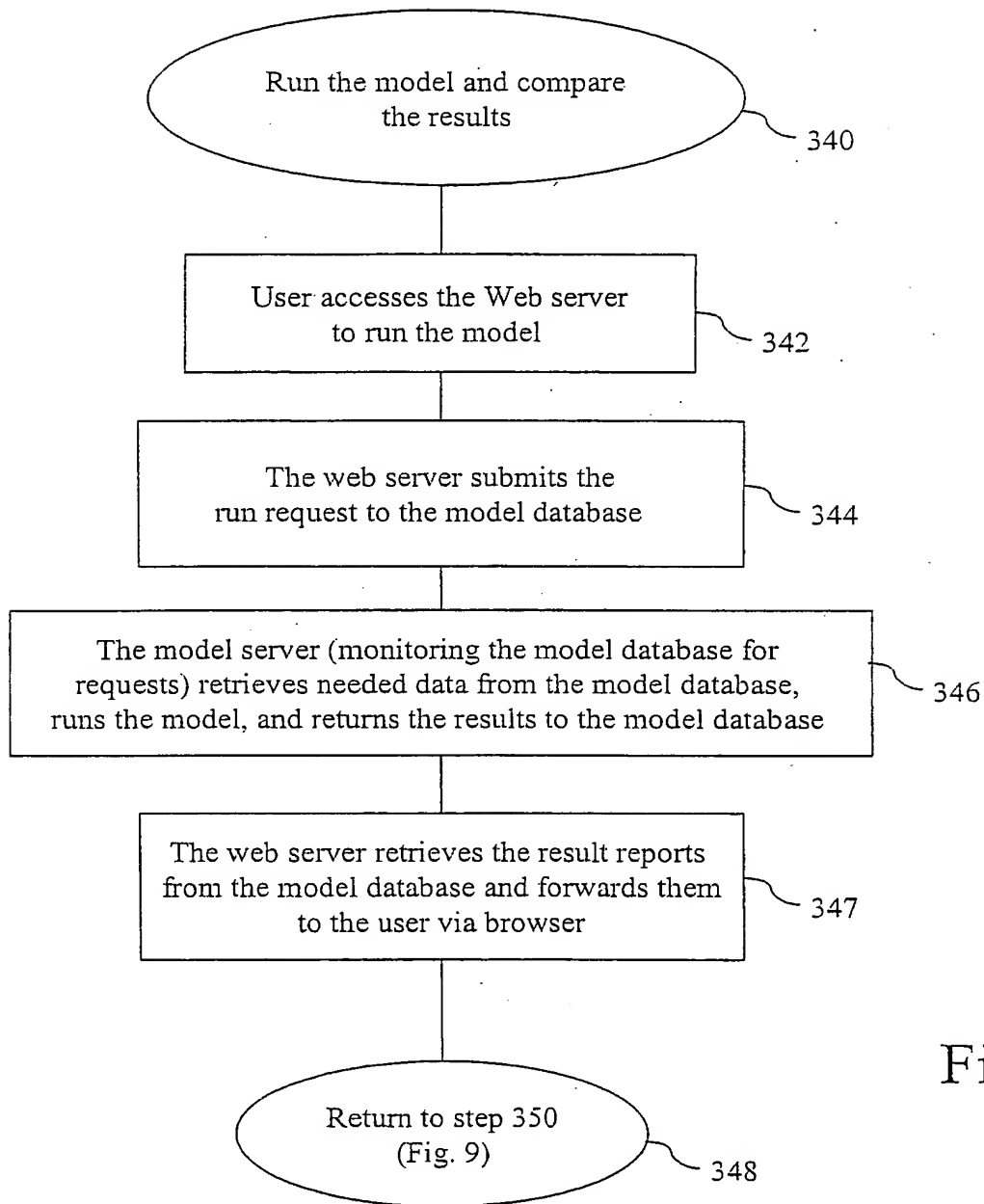


Fig. 12

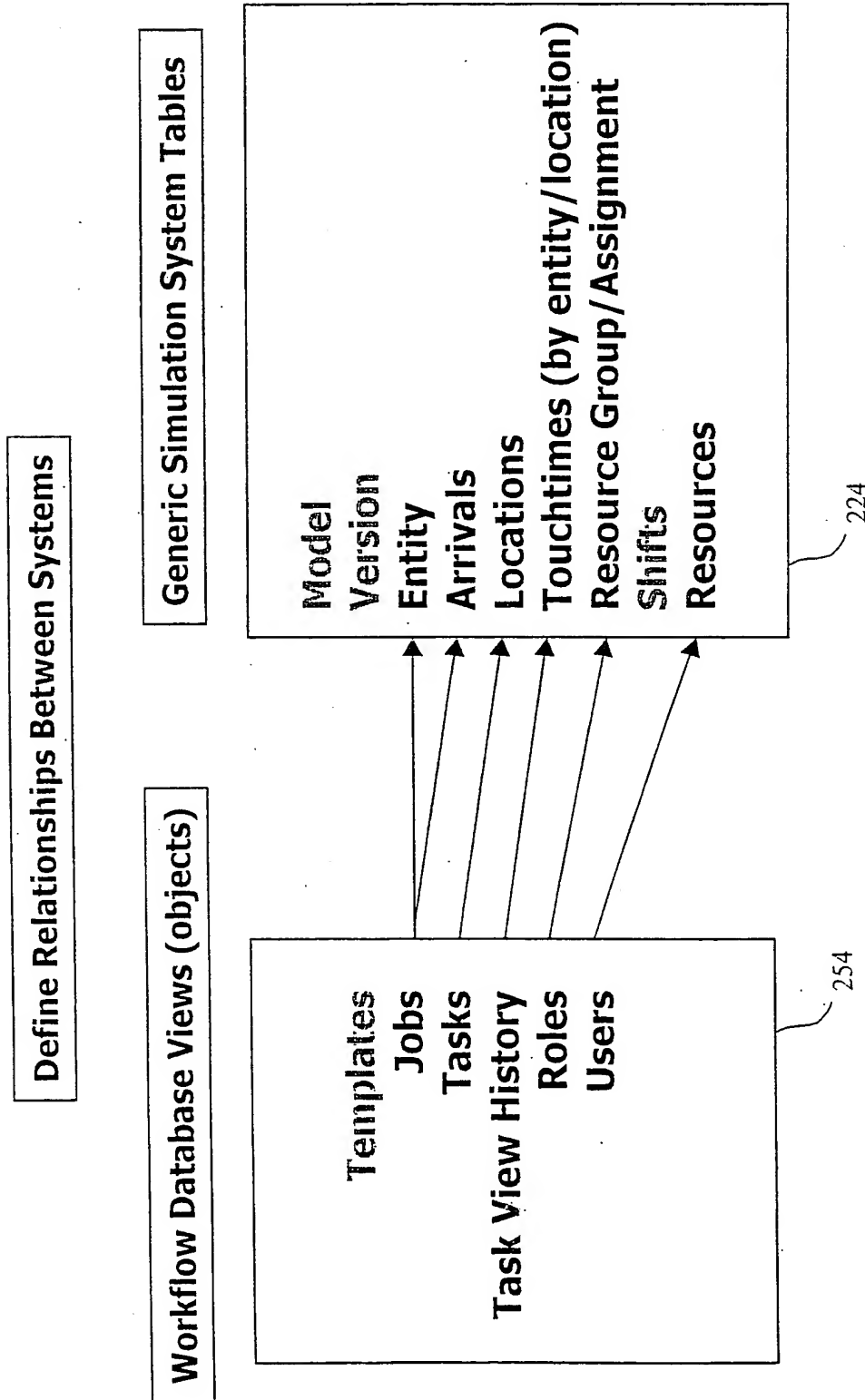


Fig. 13

Automated Curve Fitter

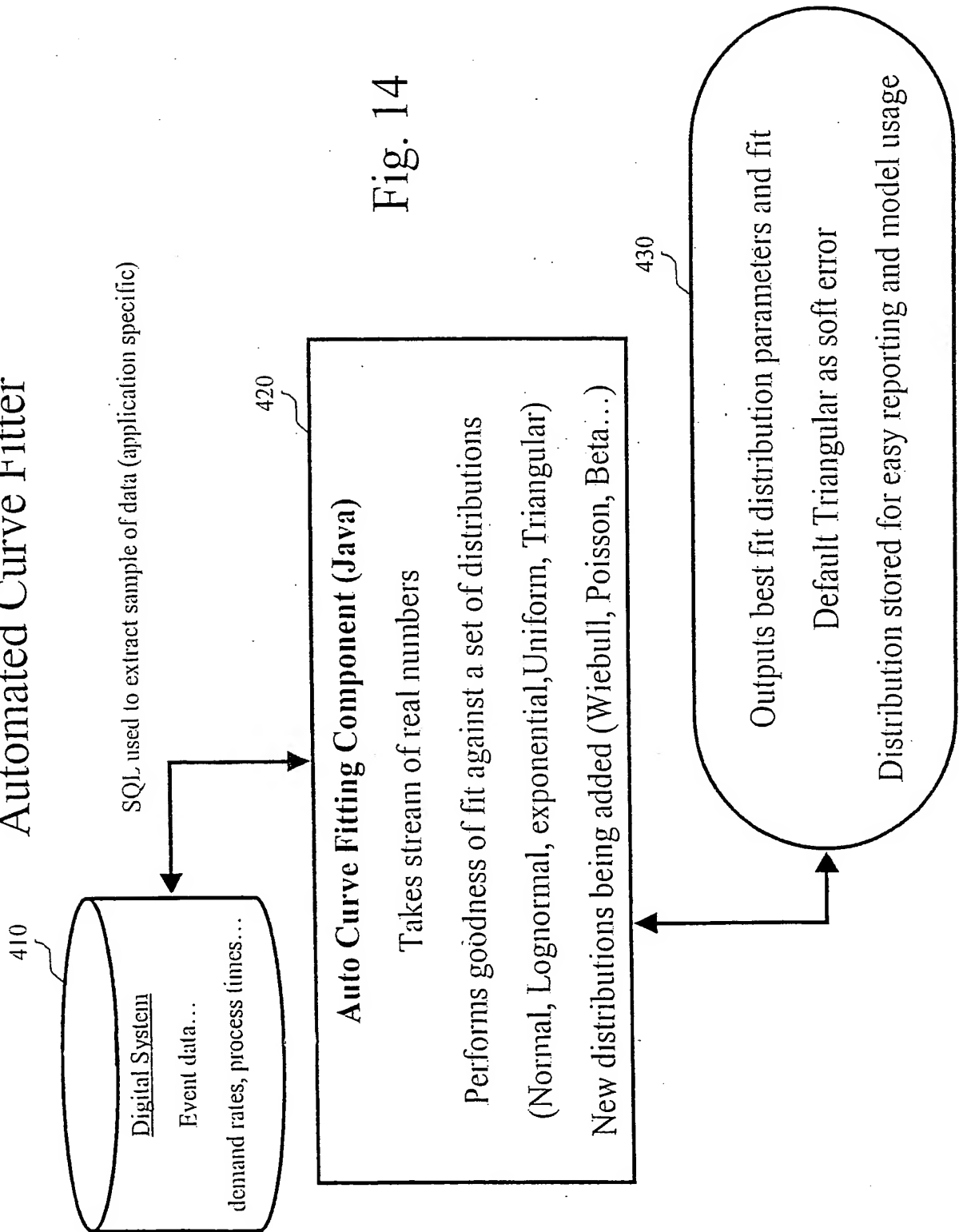


Fig. 14

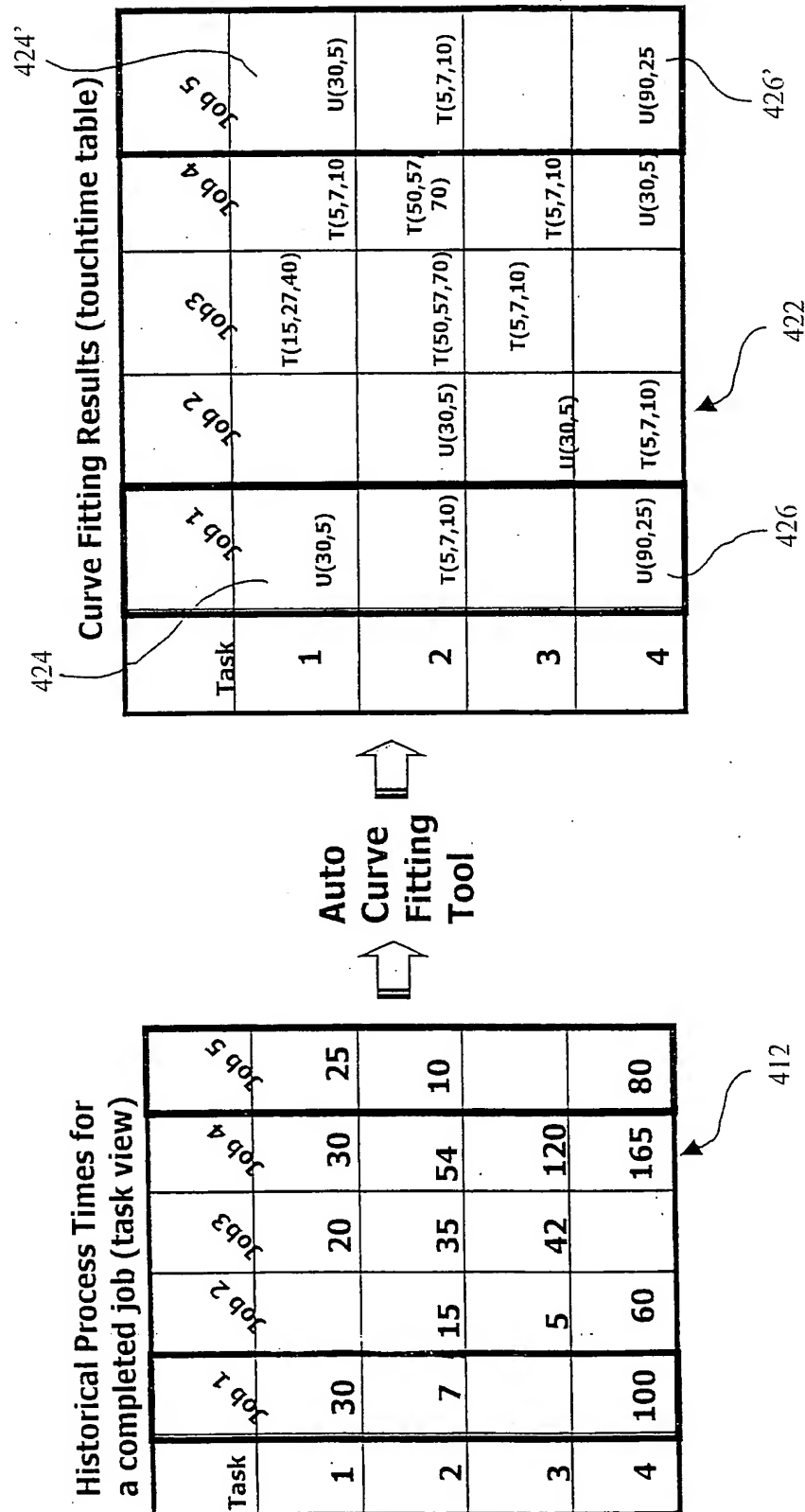


Fig. 15

Process steps 310, 332, 342

How does this tool help?

[Click here](#) to find out

See a Demo

[View a real case scenario](#) using CT/MR Optimizer

The Generic Business System Process Modeling System allows process owners and quality leaders the ability to test their business system's performance under a variety of conditions. This WEB based dynamic modeling technology will allow businesses to construct and save a variety of business system workflow alternatives and test system performance under a broad range of conditions.

Below are listed the models and templates currently defined in the system.

Select either an existing model (to modify) or a template (new model creation) and a version number to proceed to the next step.

COMING SOON - Models may be created and updated from digital workflow system such as TIBCO and eMatrix. This will allow more accurate process time and arrival rate distributions to easily and automatically be incorporated into your business critical process simulations

[Preliminary version](#)

Click to generate model from workflow data

Model List	Version	Select	Delete	Template List	Version	View	Create New Model
May's New Model with right sequence	1			CT_Template			
Mei2	2						
Z-EC_ScanIndexFieldsPR							
tes(EURO claims build							

Model Description

Testing workflow model create

Fig. 16

Auto Generate a process model based on historical workflow data

Generated list of workflow

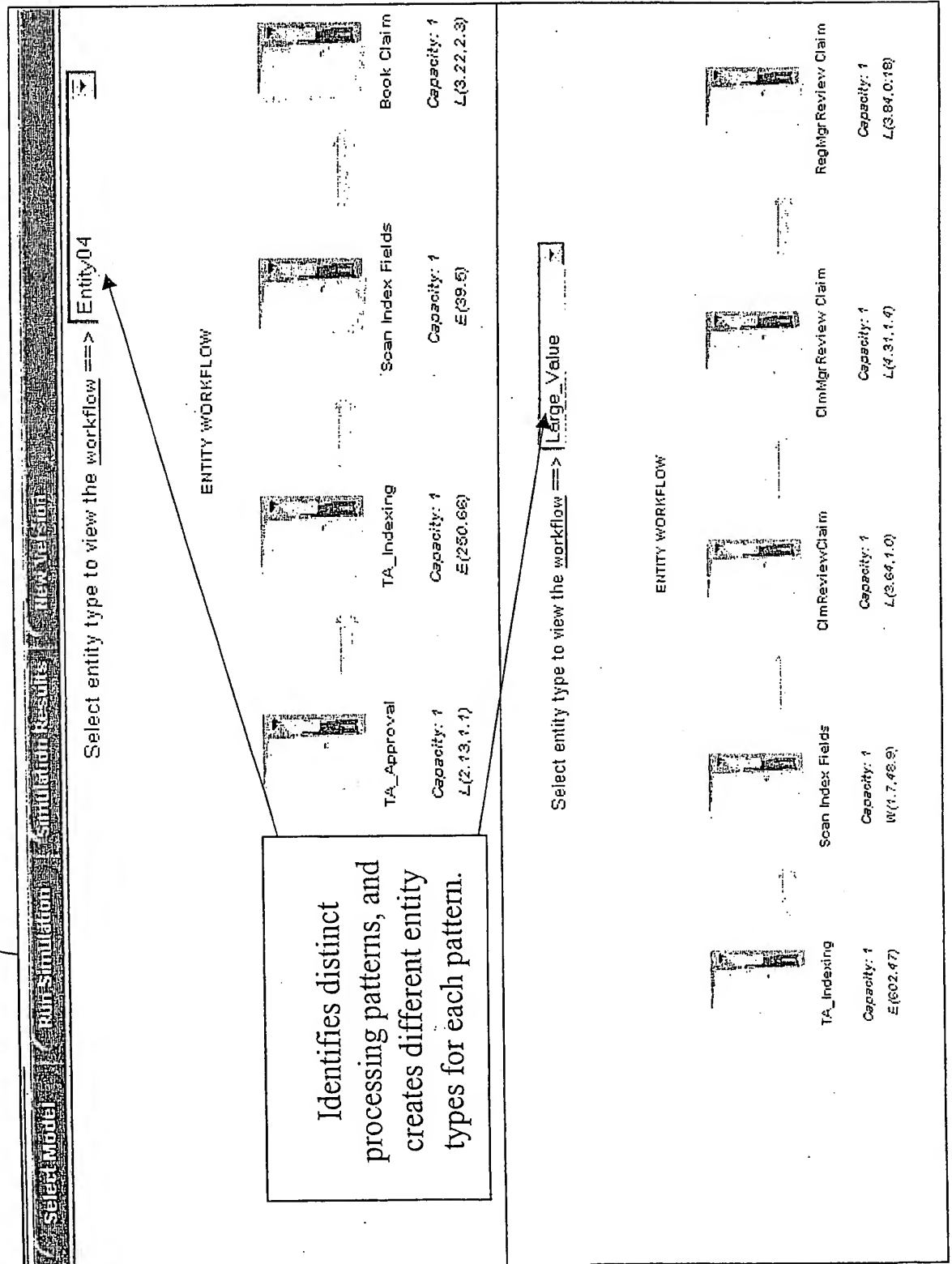
Select a workflow: CA_CashAlloc_WorkFlow EB_DealApproval EC_ScanIndexFields EC_ScanIndexFieldsPR ERC_ADMIN_TEST_EDM_START1 TAC_ACCOUNTING_PD TAC_BORDEREAUX_PD TAC_FACBOOKING_PD TAC_XLBOOKING_PD UKCLAIMS_SETUP	Specify a unique name for the new model: Z-EC_ScanIndexFieldsPR
Give a description of the new model: Testing workflow model create	
Select the time period of the workflow you are interested in (format=MM-DD-YYYY): From: 01-01-2001 To: 04-01-2001	
<input type="checkbox"/> Show detailed output	
<input type="button" value="Create Model"/> <input type="button" value="Close"/>	

Process step 320

Fig. 17

Fig. 18

Process steps 330, 334



Model elements can easily be added and edited

Model Id	Model Name	Version
211	Z-EC_ScanIndexFieldsPR	1

Model information page; Only name, version number and description can be updated using this page. This page should be accessible from any point in the modeling process. This page should appear when a model is loaded from the database. You can select models from the database.

Model name:	Z-EC_ScanIndexFields	Version number:	1
Number of <u>entities</u>	8	Number of <u>arrivals</u>	0
Number of <u>resources</u>	0	Number of <u>resource groups</u>	0
Number of <u>process steps</u>	10	Number of <u>assignments</u>	0
Number of <u>workflows</u>	32	Last modified <u>Scheduled Arrivals</u>	

You can edit the model description or create another model using this model as a starting point or template by changing the name or version number and pressing the update button. This will create a new instance of the model that you can make changes to while saving the current model for future reference.

Model description: Testing workflow model create

Update Done

Process step 336

Fig. 19

Edit entities (add, delete and change names)

Build list of system entities :

Add new entities to the list or change the name of an entity in the list.

Model Id	Model Name	Version
211	Z-EC_ScanIndexFieldsPR	1

Entity/03
Entity/04
Entity/05
Entity/06
Rejected_ByReview ▼ Delete

Model Info

Add New Change Name

Apply Done

Process step 336

Fig. 20

Fig. 21

Process step 336

Edit resources (add, delete, schedule and change names)

Model Id	Model Name	Version
211	ZEC_ScanIndexFieldsPR	1

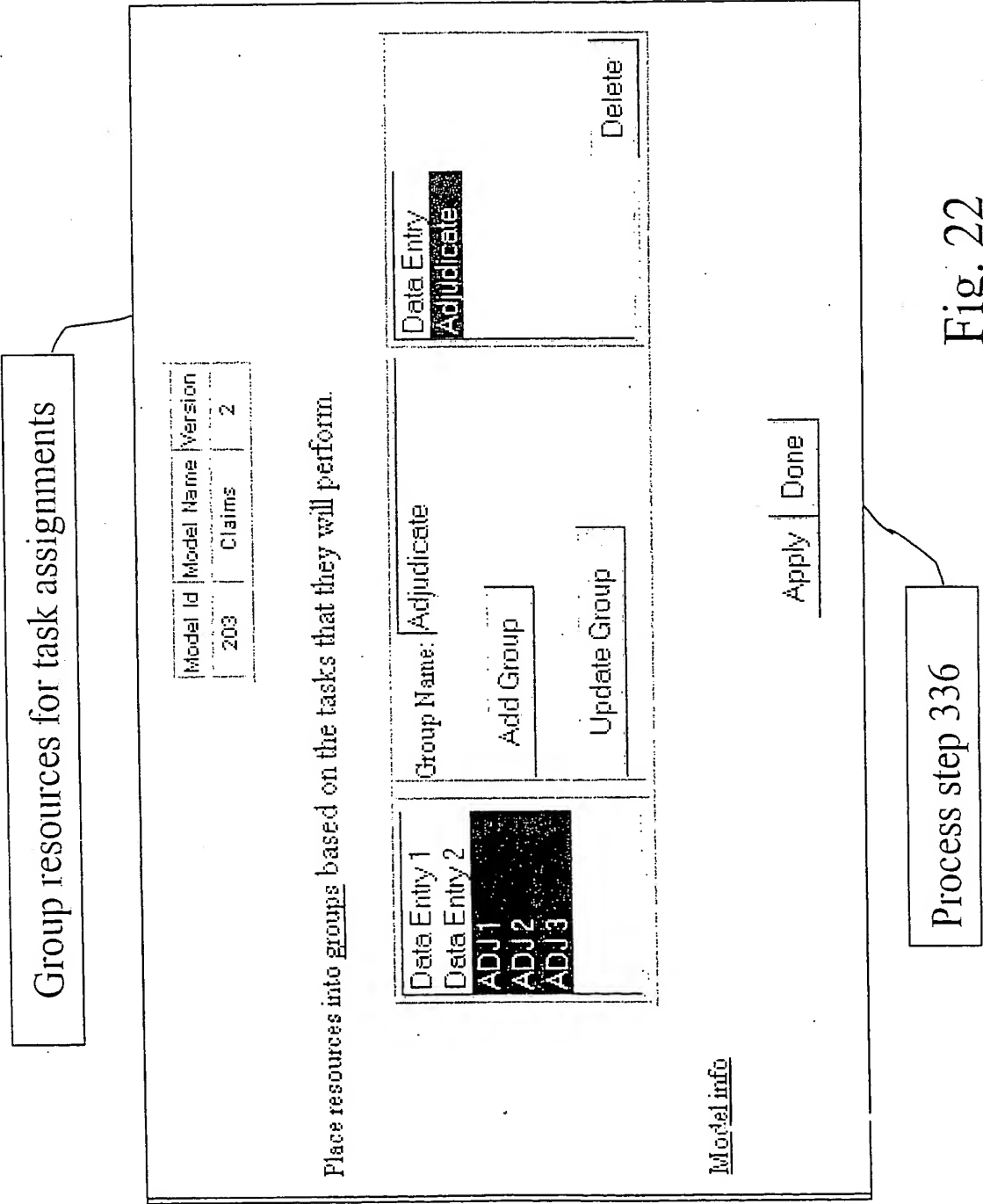
Build a list of system resources : Add new resources to the list or change a resource in the list.	
Name: DataEntry_1	Delete
Cost per Hr: 10	
Add New	Update

Set resource Schedule CAN THIS BE DONE WITH A GRAPHIC CONTROL?	
Scheduled Days: <input checked="" type="checkbox"/> Monday <input checked="" type="checkbox"/> Tuesday <input checked="" type="checkbox"/> Wednesday <input checked="" type="checkbox"/> Thursday <input checked="" type="checkbox"/> Friday <input type="checkbox"/> Saturday <input type="checkbox"/> Sunday	Scheduled Hours: From: 8 To: 5 AM PM Add New Schedule
First Shift	

NOTE: Schedules should be defined for both resources and operations or tasks on this page. Schedules can be selected and assigned to process steps on the process step page. Define schedules to reflect the actual availability of the resources and tasks.

Model Info

Apply Done



Model Id	Model Name	Version
203	Claims	2

Resource Group Task Assignments

Define jobs that individuals in this resource group can perform in this model.

Assign first working step in job:	How many of this resource?	Resource Group:	Assign last working step in job:
At step: <input type="text" value="Data Entry"/>	<input type="text" value="1"/>	<input type="text" value="Data Entry"/>	Works until step: <input type="text" value="Data Entry"/>

(then resource is released for other jobs)

Save this job definition

Model info

Current Job Assignment List

At Data Entry, 1. Data Entry works until task at Data Entry is completed

Remove job defi

Group resources for task assignments

Process step 336

Fig. 23

Process steps (add, delete and modify)

Model Id	Model Name	Version
214	Z-EC_ScanIndexFieldsPR	1

Build a list of system process steps : Add new process steps to the list or change a process in the list.

Name: Scan Index Fields		capacity: 1	cost per
use 0			
Add Before	Add After	Change Selected	
<div> <div>TA Indexing</div> <div>Scan Index Fields</div> <div>ClinReviewClaim</div> <div>ClinMgrReviewClaim</div> </div>			
			Delete
Set Process		Set Downtime	
Downtime: 0		First Time: 0	
Duration: 0		Time Between: 0	

Model info

Apply Done

Process step 336

Fig. 24

Change arrival patterns (Number & frequency)

Model Id	Model Name	Version
203	Claims	2

Arrivals describe the entry pattern of entities into the business process from an external source.

Entity	Arrives at Process Step	Qty. Each	First Time	Occurrences	Frequency
SL Claim	Arrival_Q				

Add Arrival Update Del Arrival

SL Claim At Arrival_Q 15 0 INF 168 HR
SL Claim At Arrival_Q 15 24 INF 168 HR
SL Claim At Arrival_Q 15 48 INF 168 HR
SL Claim At Arrival_Q 15 72 INF 168 HR
SL Claim At Arrival_Q 15 96 INF 168 HR

Model info

Apply Done

Process step 336

Fig. 25

Change process flow and processing times with the workflow screen

Model Id	Model Name	Version
211	Z-EC_ScanIndexFieldsPR	1

Build Workflow for Entity: Large_Value

Select a process step:

TA_Indexing
 Scan Index Fields
 ClmReviewClaim
ClmMgtReviewClaim
 RegMgtReviewClaim
 ClmLeaderReview
 Book Claim
 TA_Approval
 Close Sleep
 UwComments

Enter the processing Time:

L(4.31.1.4)
 Update
 Workflow generated time distributions:

Add Before

TA_Indexing E(602.47)
 Scan Index Fields W(1.7.48.9)
 ClmReviewClaim L(3.64.1.0)
ClmMgtReviewClaim L(4.31.1.4)
 RegMgtReviewClaim L(3.84.0.18)

Add After

Entity03
 Copy and workflow

Delete

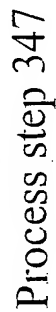
Set Time

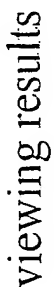
Apply Done

Model Info

Fig. 26

Process step 336

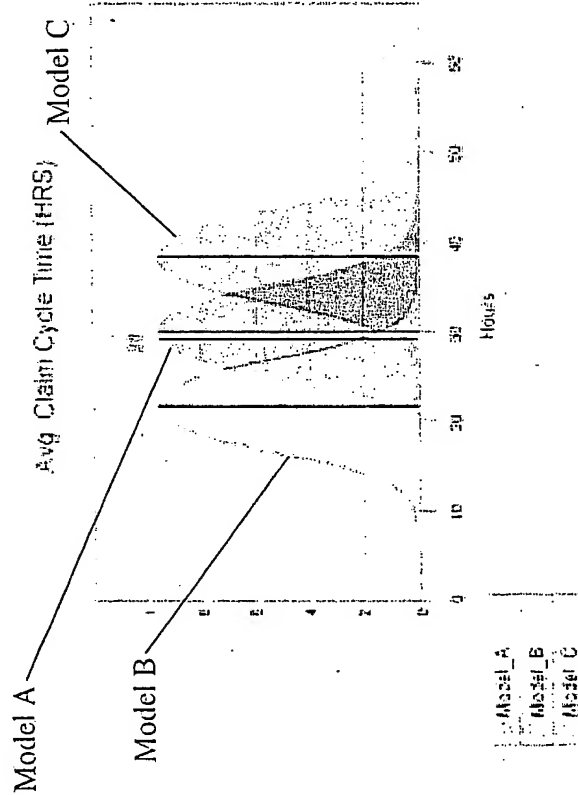




Process step 347

Entity Cycle Time report

This report communicates the average time a work object spends in your system. The data being displayed represents the range of possible results given the input assumptions for your business system. The variability in the models result is function of the variability and interdependencies of the various model input assumptions (arrival rates, resource availability, processing times...).



Process step 347

Fig. 29

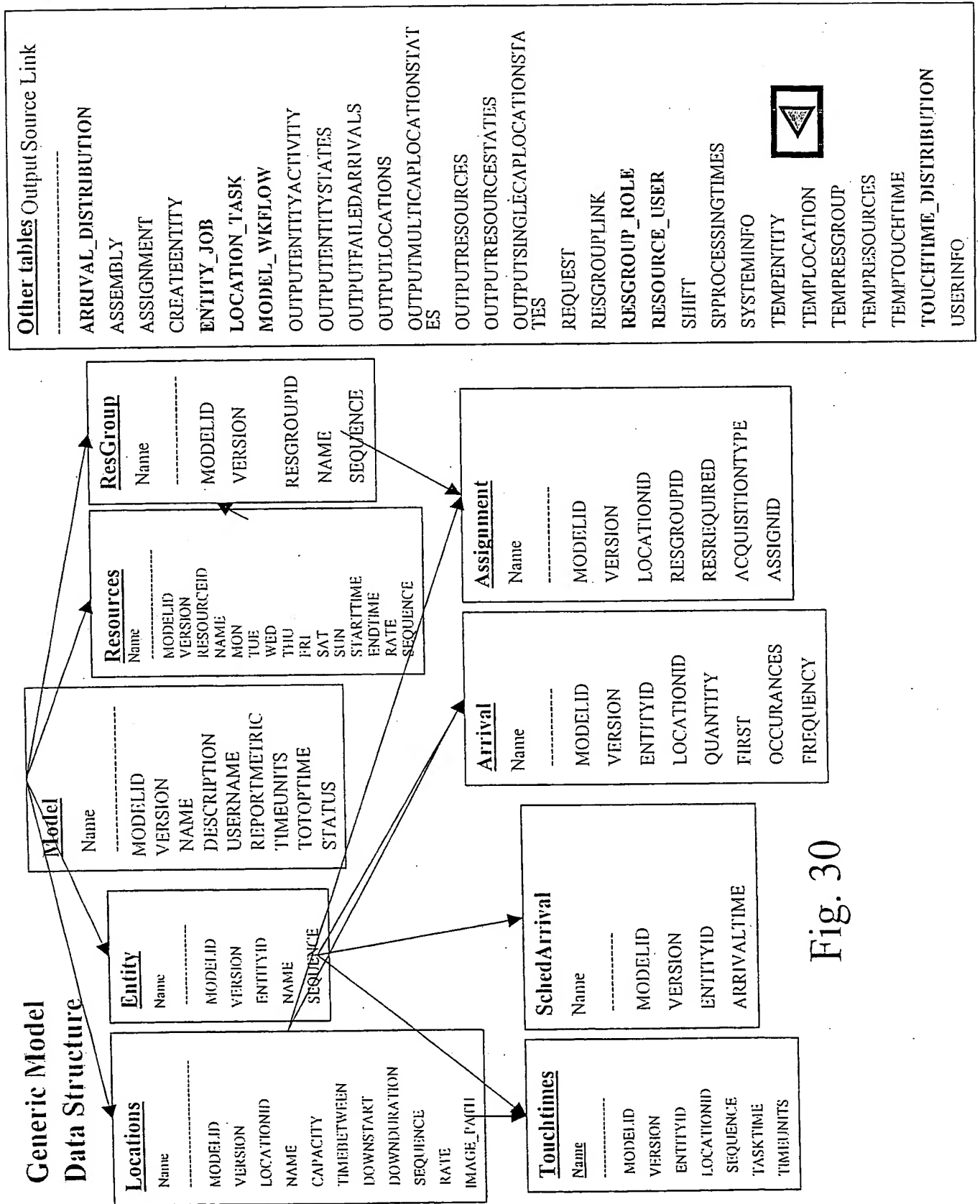


Fig. 30

FIG. 31A

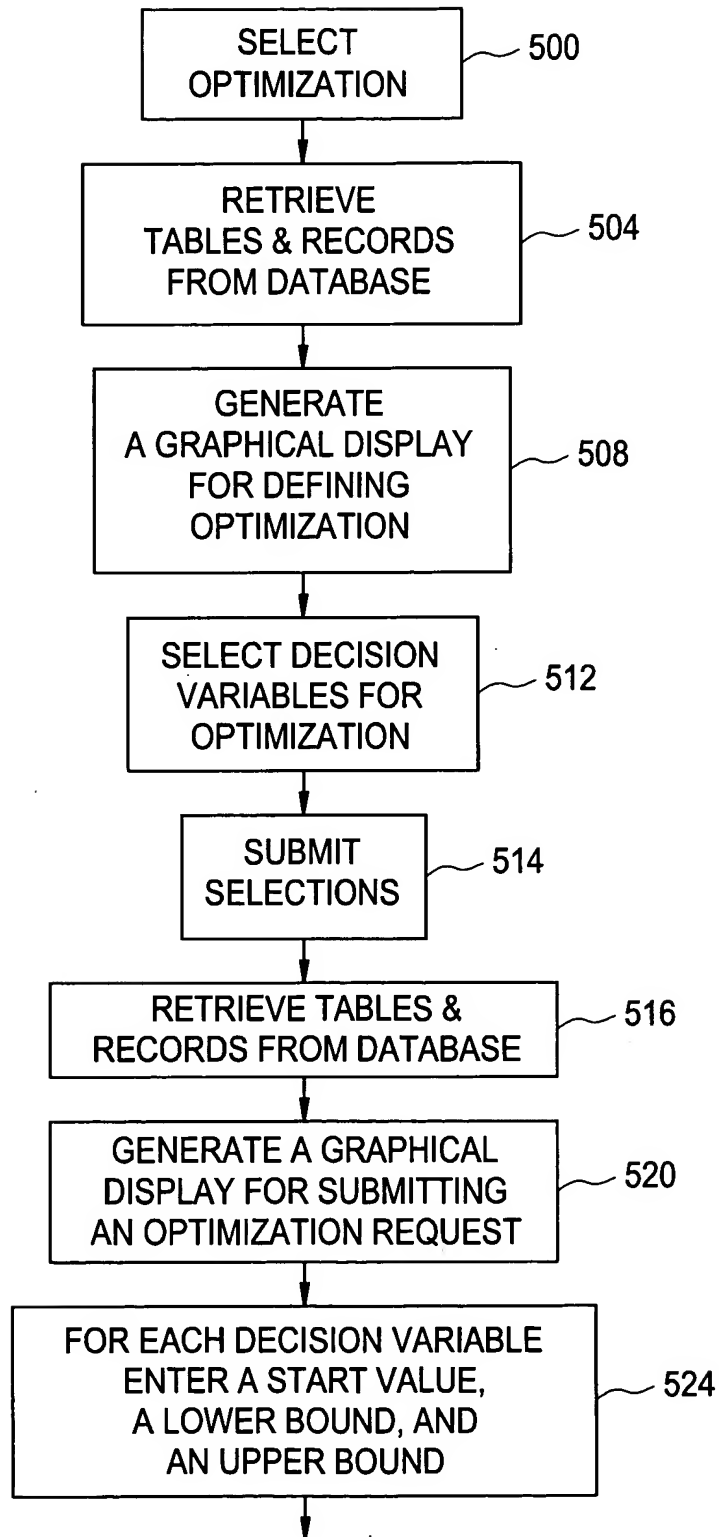


FIG. 31B

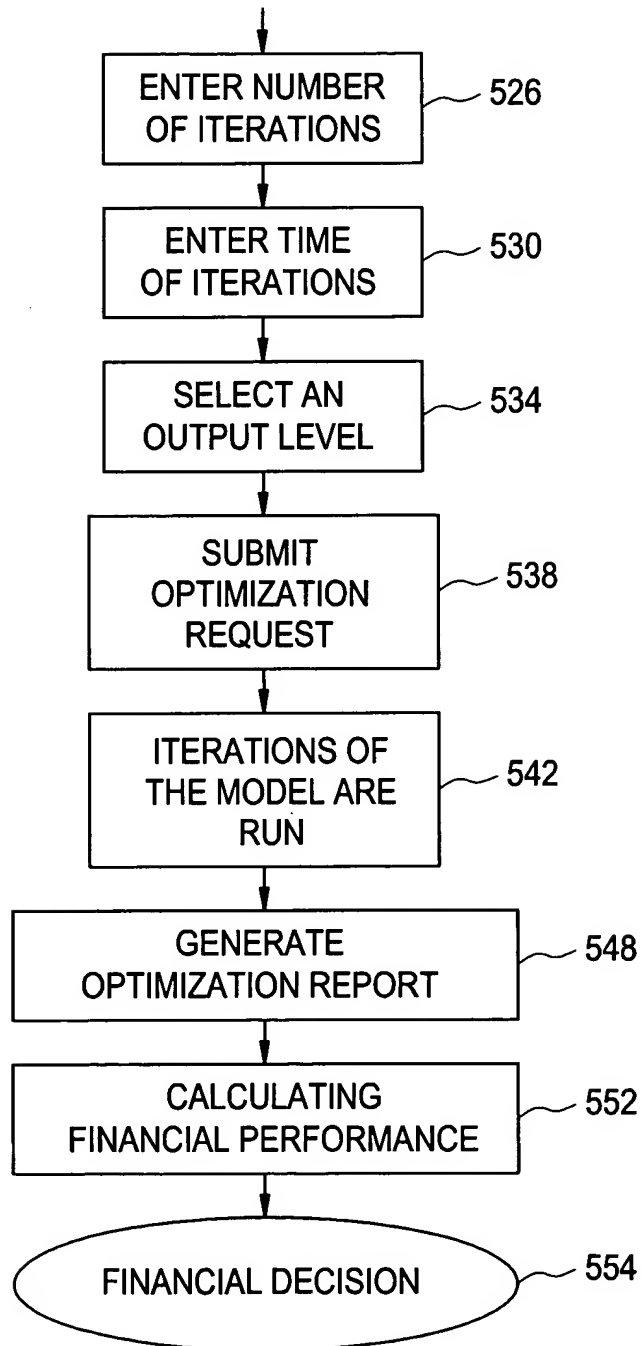


FIG. 32

PROCESS STEPS 512, 514

☐ DEFINE OPTIMIZATION FOR A SIMULATION MODEL - MICROSOFT INTERNET EXPLORER

SIMULATION MODEL:
OPTIMIZATION NAME:
OBJECT FUNCTION: UTILIZATION RATE

MODEL

VERSION: 2
OPTIMIZATION ID: 602
OPTIMIZATION DIRECTION: MAXIMIZE

CHOOSE DECISION VARIABLES FOR ARRIVAL

DECISION VARIABLE	ENTITY NAME	LOCATION	INITIAL QUANTITY
<input type="checkbox"/>	VAN_53_ORDERS	ORDER_QUEUE	1
<input type="checkbox"/>	VAN_53	READY_POOL	120
<input type="checkbox"/>	VAN_48_ORDERS	ORDER_QUEUE	1
<input type="checkbox"/>	STORAGE	READY_POOL	45
<input type="checkbox"/>	STORAGE_ORDERS	ORDER_QUEUE	1
<input type="checkbox"/>	REFFER	READY_POOL	5
<input type="checkbox"/>	REFFER_ORDERS	ORDER_QUEUE	1
<input type="checkbox"/>	FLATBED	READY_POOL	63
<input type="checkbox"/>	FLATBED_ORDERS	ORDER_QUEUE	1
<input type="checkbox"/>	VAN_48	READY_POOL	185

SUBMIT

498

501

499

510

515

FIG. 33

PROCESS STEPS 524, 526, 530, 534

☐ SUBMIT AN OPTIMIZATION REQUEST - MICROSOFT INTERNET EXPLORER

578

SUBMIT OPTIMIZATION REQUEST

SIMULATION MODEL: MODEL VERSION: 2 OPTIMIZATION: TEST

OBJECTIVE FUNCTION: UTILITY RATE

DEFINE PARAMETERS FOR DECISION VARIABLES

ENTITY NAME	LOCATION	START VALUE	LOWER BOUND	UPPER BOUND
VAN_53	READY_POOL	160	140	180
VAN_48	READY_POOL	80	60	100

OPTIMIZATION STOP CRITERIA

528

NUMBER OF ITERATIONS: 100

TIME OF ITERATIONS: 200 MINUTES

532

OUTPUT LEVEL 536

☒ BEST SOLUTION ONLY

☐ ALL CURRENT BEST SOLUTION

☐ BEST SOLUTION EVERY ITERATIONS

536

SUBMIT

540

FIG. 34

PROCESS STEP 548

☐ VIEW OPTIMIZATION RESULTS - MICROSOFT INTERNET EXPLORER

MODEL INFORMATION

• MODEL NAME:

2

• VERSION:

• OPTIMIZATION:

TEST

• FUNCTION:

UTILIZATION RATE

• DIRECTION:

MAXIMIZE

DECISION VARIABLES

ENTITY NAME	LOCATION	START VALUE	UPPER BOUND	LOWER BOUND
VAN_53	READY_POOL	120	50	50
VAN_48	READY_POOL	185	100	100

OPTIMIZATION OUTPUT

ITERATION	OBJECT VALUE	VAN_53, READY_POOL	VAN_48, READY_POOL
1	0.867049180327869	120	185
3	0.905509433962264	100	165
4	0.912333333333333	50	100
8	0.914343434343434	93	105
14	0.923857868020305	50	147

546

550

FIG. 35

PROCESS STEP 552

53" VAN	48" VAN	UTILIZATION	TOTAL RENTAL			COST ASSOCIATED WITH CHANGES IN PORTFOLIO, MAINTENANCE?	NET UNIT DELTA	REVENUE CHANGE
			AVERAGE UNITS OUT ON RENT	DAYS A YEAR (365 DAYS)	REVENUE FROM RENTAL DAY (\$15)			
120	185	0.867	264.435	96518.775	\$1,447,782	305	\$1,447,782	
113	163	0.889	245.364	89557.86	\$1,343,368	-29	(\$104,414)	
50	100	0.912	136.8	49932	\$748,980	-155	(\$698,802)	
60	167	0.917	208.159	75978.035	\$1,139,671	-78	(\$308,111)	
55	134	0.922	174.258	63604.17	\$954,063	-116	(\$493,719)	